

CLAIMS

1. An automatically cutting dispensing appliance for wiping material, of the type comprising a basic housing (2) with a back face (2.1) and a lower face (2.2) and receiving an articulated lid (3), characterized in that the housing receives, demountably by latching, a cartridge (c) defining a carrier structure comprising two transverse flanges (4 - 5), a connecting plate (6) arranged between said flanges, and a front spacer bar (43), the flanges receiving, in their upper part, connectors (8) for supporting the reel (b) of material and, in their lower part, two drums (9 - 10) arranged side by side, without direct contact between them, the 10 first drum (9) being the blade carrier drum, the second drum (10) being the guide drum, and in that said drums (9 - 10) are designed, at one of their ends facing one another, for receiving toothed rings (11 - 12) allowing their connection and their 15 rotation with respect to one another, and in that the drum (10) is designed for receiving a third toothed ring (19) cooperating with the mechanism for starting the rotation of the drums (9 - 10), said mechanism including a fixed cam (24), 20 and in that the blade carrier arm (14) is designed with transmission means (18) making it possible to implement the functioning of a movable cam (27) allowing the emergence of the cutting blade from said drum (9), and in that the fixed (24) and movable (27) cams 25 30 cooperate with one another, at the same time defining the path of the cutting blade, and in that flaps (31 - 32) ensure the guidance of the strip of material in the appliance for the purpose of cutting said strip of material according to a specific 35 format.
2. The automatically cutting dispensing appliance for wiping material, as claimed in claim 1, characterized

in that the drum (9) arranged at the rear of the appliance is internally hollow and receives a cutting blade (13) produced in two parts (13.1 - 13.2) integral with a blade carrier arm (14),

5 and in that said blade parts meet toward the central part of the drum (9.1), at the same time leaving a space (e) for positioning a cradle (15) for supporting the blade carrier arm,
and in that said blade parts are designed according to
10 a twisted profile.

3. The automatically cutting dispensing appliance for wiping material, as claimed in claim 2, characterized in that the blade carrier arm (14) has, at one end (14.1), an abutment (16) in contact with stroke-limiting bearing planes (17) formed on the transverse face (9.2) of the drum,
and in that the other end of said arm has a notched collar (18) adjacent to the first ring (11).
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4. The automatically cutting dispensing appliance for wiping material, as claimed in claim 1, characterized in that the second, guide drum (10) has, in its central part, a radial cavity (10.1) allowing the fastening by
25 latching of a flap (31) mounted movably about said cavity and making it possible to cover at least the drum (9).

5. The automatically cutting dispensing appliance for
30 wiping material, as claimed in claim 4, characterized in that the flap (31) has a fork-shaped attached tab (30) capable of being latched in the radial cavity (10.1) of the drum, the flap having, on the inside, projecting ribs (31.1) ensuring the guidance of the
35 strip of material with respect to the drum (9).

6. The automatically cutting dispensing appliance for wiping material, as claimed in claim 1, characterized

in that the drum (10) has a spindle (10.1), the end of which is engaged in a recess formed in the opposite flange (4), said spindle receiving a third toothed ring (19) of small diameter, capable of cooperating with a 5 fourth toothed ring (20) forming the mechanism for starting the drum (9) in order to dispense the strips of material.

7. The automatically cutting dispensing appliance for 10 wiping material, as claimed in claim 5, characterized in that the fourth toothed ring (20) has, according to a set diameter, a number of teeth corresponding to a format of strip of material to be cut, said fourth ring, on one of its faces, receiving a fixed cam (24) 15 and, on the other face, allowing the fastening of a link (42) associated with a return spring (26) and ensuring an eccentric function during the rotation of the ring (20) counter to said return spring (26).

20 8. The automatically cutting dispensing appliance for wiping material, as claimed in claim 1, characterized in that the shaft (9.1) of the drum (9) is prolonged so as to receive a movable cam (27) articulated on the shaft, said cam being profiled in order to cooperate, 25 in certain operating phases, with the fixed cam (24) arranged on the ring (20), and in that a complementary pinion (36) is arranged on the movable cam (27) so as to cooperate with the pinion (18) mounted on the blade carrier arm (14), in order to 30 ensure the displacement and emergence of the cutting blade.

9. The automatically cutting dispensing appliance for wiping material, as claimed in claim 1, characterized 35 in that a lower flap (32) is mounted so as to be articulated from the front spacer bar (43), said flap opening at the front and allowing the introduction and

guidance of the free end of the strip of material coming from the reel.

10. The automatically cutting dispensing appliance for
5 wiping material, as claimed in claim 1, characterized
in that the drum has, at the termination of its shaft,
on the opposite side to the toothed rings (12 - 19), a
bearing surface (9.5) receiving fixedly a large-
diameter loading wheel (33) projecting externally from
10 the cartridge and from the appliance, in order to allow
the loading of the appliance or the fault correction of
the latter.

11. The automatically cutting dispensing appliance for
15 wiping material, as claimed in claim 1, characterized
in that the front spacer bar (43) receives a guide (38)
ensuring the upward return of the strip of material
between the drums (9 - 10), said strip of material
emerging at the rear of the appliance, at the same time
20 being guided by the articulated flap (31).

12. The automatically cutting dispensing appliance for
wiping material, as claimed in claim 1, characterized
in that the movable cam has a semicircular rear part
25 (27.a) prolonged by a first rectilinear slope (27.b), a
second rectilinear slope (27.c), a beak shape (27.d)
and a connecting line (27.e) to the rear part of the
cam,

and in that the fixed cam is bean-shaped with smaller
30 dimension and with a rectilinear base (24.1), the two
cams cooperating during the emergence of the cutting
blade, at the same time defining the path of the
latter.

35 13. The automatically cutting dispensing appliance for
wiping material, as claimed in claim 1, characterized
in that the front spacer bar is designed with two
rubber abutments (41) defining a counterbearing and

allowing the teeth (13.1) of the blade (13) which are close to one another to come to bear in order to ensure the rearward tilting of the blade carrier on itself and its retraction into the drum.

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14. The automatically cutting dispensing appliance for wiping material, as claimed in claim 1, characterized in that the drum (10) receives a toothed ring (12) defined with a number of teeth corresponding to a format,

10 and in that the change of format requires the change of the ring (12) for another ring having a different number of teeth.

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15. The automatically cutting dispensing appliance for wiping material, as claimed in claim 1, characterized in that the drum (10) is arranged so as to receive a movable spindle (10.1) receiving, on the one hand, the third toothed ring (19) and, on the other hand, a

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sliding pinion (45),

and in that the ring (20) is associated with a fifth toothed ring (21) with a different number of teeth, and in that the positioning of the spindle (10.1) with respect to the drum (10) defines the situations of engagement between the rings (19 - 20), on the one hand, and the sliding pinion (45) and the ring (21), on the other hand,

25 and in that the spindle (10.1) receives an index allowing the displacement of said spindle.

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16. The automatically cutting dispensing appliance for wiping material, as claimed in claim 15, characterized in that the ring (21) receives the fixed cam (24).

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17. The automatically cutting dispensing appliance for wiping material, as claimed in either of claims 1 and 15, characterized in that a no-return hook (22) fastened to the flange (4) cooperates either with the

ring (20) or with the ring (21) as a function of the format selection conditions of the appliance.

18. The automatically cutting dispensing appliance for wiping material, as claimed in either of claims 1 and 15, characterized in that the drums (9 - 10) have, near their toothed rings (10 - 11), recesses (47) allowing the insertion of a template-forming caliper (29) making it possible to set said rings in relation to one another as a function of the format of the strip of material to be dispensed, said template having a spindle (29.1) engaging into the central axial orifice (20.4) of the ring (20) and an index (29.2) engaging into orifices (20.5) formed on the ring (20).

19. The automatically cutting dispensing appliance for wiping material, as claimed in any one of claims 1 to 18, characterized in that the reel of material is introduced onto receiving connectors in any way, with its hanging end of material located either toward the front of the appliance or toward the rear of the appliance, said end being pulled so as to be presented between the drum (10) and the flap (32) in order subsequently to be conveyed between the drums (9 - 10) and then discharged toward the rear of the appliance by means of the drum (9).